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View: [Expand Details](#) | [INPADOC](#) | Jump to: Top Go to: [Derwent](#) EmailTitle: **WO8902763A1: CATHETER FOR DILATING STENOTIC LESIONS**Derwent Title: Catheter for dilating stenosis lesions - has tip segment with lumen in alignment with lumen in main body ([Derwent Record](#))Country: **WO** World Intellectual Property Organization (WIPO)Kind: **A1** Publ. of the Int. Appl. with Int. search report ⁱInventor: **WIJAY, Bandula;**
ANGELINI, Paolo;Assignee: **LEOCOR, INC.**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **1989-04-06 / 1988-09-20**Application Number: **WO1988US0003250**IPC Code: **A61M 25/00; A61M 29/00;**Priority Number: **1987-09-23 US1987000100363**

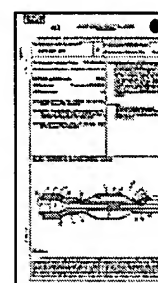
Abstract: A catheter for dilating stenotic lesions has an elongated body with at least one lumen extending therethrough. A tip, constructed of materials softer than the elongated body is attached to the distal end of the body. The tip segment has at least one lumen passing therethrough which is in alignment with the lumen in the elongated body. A guide is adapted to pass through the aligned lumens. A balloon is connected to the distal segment of the elongated body over its outer periphery, thereby creating a balloon cavity therebetween. At least one additional lumen is provided in the elongated body in flow communication with the balloon cavity, for selective inflation and deflation thereof, with a contrast fluid. [French]

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Family: [Show 35 known family members](#)First Claim: CLAIMS
[Show all claims](#)Description: **+ TITLE: ANGIOPLASTY CATHETER**
+ FIELD OF THE INVENTION

The invention relates to the field of surgery, and more particularly to instruments for facilitating the performance of surgical procedures involving the flow of blood. This technique has been



generally described as percutaneous transluminal angioplasty.

± BACKGROUND OF THE INVENTION

Obstructive coronary artery disease is generally regarded as a serious health problem in the United States and most of the western world. When drug treatment fails or inadequately controls angina pectoris, coronary artery bypass graft surgery is generally used. In 1964 a transluminal coaxial catheter dilation method for dilating atheromatous lesions in peripheral arteries was introduced by Dotter and Judkins. This technique required sequential dilation of stenotic lesions and employed progressively larger dilating catheters. Subsequently, in 1971 a "Fogarty balloon catheter" was used to perform transluminal arterioplasty. Subsequently, Gruntzig employed earlier techniques using a single double lumen catheter with a nondistensible balloon segment at its tip which was positioned in the lumen at the stenotic segment of a peripheral artery. The elastic balloon segment was then inflated, resulting in compression of the atheromatous lesion in a manner perpendicular to the vessel thus dilating the lumen. The balloon remained inflated for ten to fifteen seconds at seven atmospheres internal pressure and was then deflated.

± SUMMARY OF THE INVENTION

An angioplasty catheter has an elongated body with at least one lumen extending therethrough. A tip, constructed of materials softer than the elongated body is attached to the distal end of the body. The tip segment has at least one lumen passing therethrough which is in alignment with the lumen in the elongated body. A guide is adapted to pass through the aligned lumens. A balloon is connected to the distal segment of the elongated body over its outer periphery, thereby creating a balloon cavity therebetween. At least one additional lumen is provided in the elongated body in flow communication with the balloon cavity, for selective inflation and deflation thereof, with a contrast fluid. ###

± Brief Description of the Drawings




Fig. 1 is a sectional elevational view of one embodiment of the catheter of the present invention employing a coaxial design and having a tip with an outside shoulder.













± DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The catheter C of the present invention has several embodiments described hereinbelow and illustrated in the figures. Fig. 1 illustrates a coaxial design for a catheter having an inner body member I, an outer body member B. Annulus A is defined between inner body member I and outer body member B. A tip T is connected to inner body member I. A balloon D is connected to outer body member B on one end and adjacent the distal end of 10 of inner body member I. As shown in Fig 1 inner body member I has at least one lumen 12 therein and extending therethrough.

Forward
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	US6659977	2003-12-09	Kastenhofer; Gerhard	Schneider (Europe) A.G.	Multilayer interventional catheter
	US6607544	2003-08-19	Boucher; Ryan P	Kyphon Inc.	Expandable preformed structures for deployment in interior body regions

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Other Abstract Info:

None



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